

S-OIL SEVEN RED #9 SP 5W-30

Date of the previous version: 2020-04-27 Revision Date: 2023-03-17 Version 2

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name S-OIL SEVEN RED #9 SP 5W-30

Pure substance/mixture Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Engine oil.

1.3. Details of the supplier of the safety data sheet

Manufacturer S-OIL CORPORATION

192, Baekbeom-ro, Mapo-gu,

Seoul 04196, Korea

For further information, please contact:

Contact Point HSSEQ

E-mail Address dolyoo@stlc.co.kr

1.4. Emergency telephone number

Korea +82 2 527 6052

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

GHS Classification

Not classified as hazardous

2.2. Label elements

GHS label elements, including precautionary statements

Symbol(s) Not Classified
Signal Words Not Classified

2.3. hazards Statement

Not classified

2.4. Precautionary Statements

Prevention Not Classified

Response Not Classified

Storage Not Classified

Disposal Not Classified



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2.5. Other hazards

Physical-Chemical Properties Contaminated surfaces will be extremely slippery.

Environmental properties Should not be released into the environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Mixture

Chemical Name	Common Name	CAS-No	Weight %
Distillates (petroleum), hydrotreated heavy paraffinic	-	64742-54-7	79.0 ~ 89.0
Distillates (petroleum), solvent-dewaxed heavy paraffinic	-	64742-65-0	0.8 ~ 1.2

Additional information Product containing mineral oil with less than 3% DMSO extract as measured by

IP 346

4. FIRST AID MEASURES

4.1. Description of first-aid measures

General advice IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR

OR EMERGENCY MEDICAL CARE.

Eye contact Rinse thoroughly with plenty of water, also under the eyelids.

Skin contact Remove contaminated clothing and shoes. Wash skin with soap and water.

Wash contaminated clothing before reuse.

High pressure jets may cause skin damage. In this case, the casualty should be

sent immediately to hospital.

Inhalation Move to fresh air.

Ingestion Do NOT induce vomiting. Never give anything by mouth to an unconscious

person. Call a physician or Poison Control Center immediately.

4.2. Most important symptoms and effects, both acute and delayed

Eye contact Not classified.

Skin contactNot classified. High pressure injection of the products under the skin may have

very serious consequences even though no symptom or injury may be

apparent.

Inhalation Not classified. Inhalation of vapors in high concentration may cause irritation of

respiratory system.

Ingestion Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting

and diarrhea.

4.3. Indication of immediate medical attention and special treatment needed, if necessary



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5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media Carbon dioxide (CO 2). ABC powder. Foam. Water spray or fog.

Unsuitable extinguishing mediaDo not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Special Hazard Incomplete combustion and thermolysis may produce gases of varying toxicity

such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These maybe highly dangerous if inhaled in confined spaces or at

high concentration.

5.3. Advice for fire-fighters

Special protective equipment for fire-

fighters

Wear self-contained breathing apparatus and protective suit.

Other information Cool containers / tanks with water spray. Fire residues and contaminated fire

extinguishing water must be disposed of in accordance with local regulations.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

General Information Do not touch or walk through spilled material. Contaminated surfaces will be

extremely slippery. Use personal protective equipment. Ensure adequate

ventilation. Remove all sources of ignition.

6.2. Environmental precautions

General Information Do not allow material to contaminate ground water system. Try to prevent the

material from entering drains or water courses.

Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and material for containment and cleaning up

Methods for containment Dam up. Contain spillage, and then collect with non-combustible absorbent

material, (e.g.sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in

suitable, closed containers for disposal.

6.4. Reference to other sections

Personal Protective Equipment See Section 8 for more detail.

Waste treatment See section 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling When using, do not eat, drink or smoke. For personal protection see section 8.

Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid



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contact with skin, eyes and clothing.

Prevention of fire and explosion Take precautionary measures against static discharges. Ground/bond containers,

tanks and transfer/receiving equipment.

Hygiene measures Ensure the application of strict rules of hygiene by the personnel exposed to the

risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product

contaminated rags into workwear pockets.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures/Storage

conditions

Keep away from food, drink and animal feeding stuffs. Keep in a bunded area. Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.

Materials to Avoid Strong oxidizing agents.

7.3. Specific end uses

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits Mineral oil mist:

USA: OSHA (PEL) TWA 5 mg/m³, NIOSH (REL) TWA 5 mg/m³, STEL 10 mg/m³, ACGIH

(TLV) TWA 5 mg/m³ (highly refined)

Legend See section 16.

8.2. Exposure controls

Occupational Exposure Controls

Apply technical measures to comply with the occupational exposure limits. When working in **Engineering Measures**

confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for

breathing and wear the recommended equipment.

Personal Protective Equipment

General Information If the product is used in mixtures, it is recommended that you contact the appropriate

protective equipment suppliers. These recommendations apply to the product as

supplied.

Respiratory protection None under normal use conditions. When workers are facing concentrations above the

exposure limit they must use appropriate certified respirators. Respirator with

combination filter for vapour/particulate (EN 14387). The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their

choices and uses.

Eye Protection If splashes are likely to occur, wear:. Safety glasses with side-shields.

Skin and body protection Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing.

Cleveland Open Cup (COC)



MATERIAL SAFETY DATA SHEET

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Hand Protection Hydrocarbon-proof gloves. Fluorinated rubber. Nitrile rubber. Please observe the

instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the

supplier of the EC approved gloves.

Environmental exposure controls

General Information The product should not be allowed to enter drains, water courses or the soil.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Color Amber
Physical State @20°C Liquid
Odor Characteristic

<u>Property</u> <u>Values</u> <u>Remarks</u> <u>Method</u>

pH Not applicable

Boiling point/boiling range Not applicable

Flash point 233 °C

Evaporation rateNo information availableFlammability Limits in AirNo information available

Vapor PressureNo information availableVapor densityNo information available

Density 849.4 kg/m³ @ 15 °C **Water solubility** Insoluble

Solubility in other solvents

No information available
No information available

Autoignition temperatureNo information availableViscosity, kinematic62.63 mm²/s@ 40 °C

Explosive propertiesNot explosiveOxidizing PropertiesNot applicablePossibility of hazardous reactionsNot applicable

9.2. Other information

10. STABILITY AND REACTIVITY

10.1. Reactivity

General Information No information available.

10.2. Chemical stability

Stability Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous Reactions None under normal processing.

10.4. Conditions to Avoid

Conditions to Avoid Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.)



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10.5. Incompatible Materials

Materials to Avoid Strong oxidizing agents.

10.6. Hazardous Decomposition Products

Hazardous Decomposition Product None under normal use.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity Local effects Product Information

Skin contact . Not classified. High pressure injection of the products under the skin may have very

serious consequences even though no symptom or injury may be apparent.

Eye contact . Not classified.

Inhalation . Not classified. Inhalation of vapors in high concentration may cause irritation of

respiratory system

Ingestion . Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

Acute toxicity- Component Information

Chemical name	Oral	Dermal	Inhalation
Distillates (petroleum), hydrotreated heavy paraffinic	LD50 > 5000 mg/kg bw (rat – OECD 420)	LD50 > 5000 mg/kg bw (rabbit – OECD 402)	LC50 > 5 mg/l (4h, aerosol) (rat – OECD 403)
Distillates (petroleum), solvent-dewaxed heavy paraffinic	LD50 > 5000 mg/kg (rat – OECD 401)	LD50 > 5000 mg/kg (rabbit – OECD 402)	LC50 (4h) > 5.53 mg/l (mist) (rat – OECD 403)

Skin corrosion/irritation Not classified.

Serious eye damage/eye

irritation

Not classified.

Sensitization

Sensitization Not classified as sensitization.

Specific effects

CarcinogenicityThis product is not classified carcinogenic.MutagenicityThis product is not classified as mutagenic.

Reproductive toxicityThis product does not present any known or suspected reproductive hazards.

Repeated Dose Toxicity

Subchronic toxicity No information available.

Target Organ Effects (STOT)

Target Organ Effects (STOT) No information available.

Other information



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Other adverse effects Characteristic skin lesions (pimples) may develop following prolonged and repeated

exposures (contact with contaminated clothing).

Aspiration hazard Not classified as aspiration hazard

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Not classified.

Acute aquatic toxicity - Component Information

Chemical name	Toxicity algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish
Distillates (petroleum), hydrotreated heavy paraffinic	EL50 > 100 mg/l (48h, Pseudokirchnerella subcapitata – OECD 201)	EL50 > 10000 mg/l (48h, Daphnia magna – OECD 202)	LL50 > 100 mg/l (96h, Oncorhynchus mykiss – OECD 203)
Distillates (petroleum), solvent-dewaxed heavy paraffinic	-	EL50 > 10000 mg/l (48h, Daphnia magna)	LL50 > 100 mg/l (96h, Pimephales promelas)

Chronic aquatic toxicity - Component Information

	Chemical name	Toxicity algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish
Г	Distillates (petroleum),		NOEL 10 mg/l	NOEL > 1000 mg/l
	hydrotreated heavy		(21d, Daphnia magna –	(14/28d, Oncorhynchus
	paraffinic		QSAR Petrotox)	mykiss – QSAR Petrotox)
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	NOEL ≥ 100 mg/l (72h, Pseudokirchneriella subcapitata)	NOEL 10 mg/l (21d, Daphnia magna)	-

Effects on terrestrial organisms

No information available.

General Information

No information available.

12.2. Persistence and degradability

General Information

Persistence No information available.

degradability No information available.

12.3. Bioaccumulative potential

Product InformationNo information available.logPowNo information available.

12.4. Mobility in soil

Soil Given its physical and chemical characteristics, the product generally shows low soil

mobility.

Air Loss by evaporation is limited.



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Water Insoluble. The product spreads on the surface of the water.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

12.6. Other adverse effects

General Information No information available

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues / Unused

Products

Should not be released into the environment. Do not empty into drains. Dispose of in accordance with all applicable national environmental laws and regulations. Where

possible recycling is preferred to disposal or incineration.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal.

Other information Refer to section 8 for safety and protective measures for disposal personnel.

14. TRANSPORT INFORMATION

ADR/RID Not regulated

IMDG/IMO Not regulated

ICAO/IATA Not regulated

ADN Not regulated

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories

Further information

15.2. Chemical Safety Assessment

Chemical Safety Assessment No information available

16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

No information available

Abbreviations, acronyms



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Legend Section 8

+ Sensitizer * Skin designation

** Hazard Designation C: Carcinogen

M: Mutagen R: Toxic to reproduction

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Revision Note *** Indicates updated section.

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by theuser that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

End of the safety data sheet